

Title **PLD-18W-NL-140-IEC Product Specification**

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Market:**1 Dimensions &Cap**

	Referenced standard	Dimensions	Min.	Rated	Max.	Unit
	IEC60901	A	25.0	26.5	28.0	mm
		B	25.0	26.5	28.0	mm
		C	/	128.0	140.0	mm
		D	/	143.0	155.0	mm
		Φ	11.5	12.0	12.5	mm
		Cap	G24q-2			
	IEC60901	A	25.0	26.5	28.0	mm
		B	25.0	26.5	28.0	mm
		C	/	128.0	140.0	mm
		D	/	150.0	162.0	mm
		Φ	11.5	12.0	12.5	mm
Cap		G24d-2				

2 Reference Ballast characteristics

Nominal wattage (w)	Rated voltage (V)	Calibration current (A)	Voltage/current ratio(Ω)	Frequency (Hz)	Power factor	Others
18W	220	0.220	800	50	0.12	/

3 Electrical Characteristics

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Nominal power	P	100 hrs, 25°C Ref. ballast, 18W	IEC60901	18		W
Rated watts	P			18	≤19.4	W
Lamp voltage	U			100	±10	V
Lamp current	I			220		mA

4 Photometrical Characteristics

Parameter (Lumen)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	Φ	100 hrs, 25°C Ref. ballast, 18W	/	1200	-8%	lm
3500K/4100K	Φ			1200		
5000K/6500K	Φ			1100		

5 Efficiency

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
2700K/3000K	η	100 hrs, 25°C Ref. ballast, 18W	(EC) NO. 245-2009 (EU) NO. 347-2010	67	/	lm/W
3500K/4000K	η			67		
5000K/6500K	η			60		

6 Color Characteristics

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Color-2700K	Tc	100 hrs, 25°C Ref. ballast, 18W	IEC60081	x=0.463 y=0.420		
Color-3000K	Tc			x=0.440 y=0.403		
Color-3500K	Tc			x=0.409 y=0.394		
Color-4000K	Tc			x=0.380 y=0.380		
Color-5000K	Tc			x=0.346 y=0.359		
Color-6500K	Tc			x=0.313 y=0.337		
CRI-827/830	Ra			82	-2	
CRI-835/840	Ra			82	-2	
CRI-850/865	Ra			82	-2	
Color tolerance	SDCM				≤5.0	



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7 Lumen maintenance &Life

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit
Lumen maintenance	%	2000hrs,	/	85	%
		4000hrs,		78	
		8000hrs,		75	
		/		/	
Life	h	Switching cycle:165minutes "On", 15minutes"Off" IEC-PLD-18W ballast	IEC60901	12,000	h

8 Ignition Requirement

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit
Ignition time	t	Ref. ballast,18w, 198v, 25°C	/	≤10	s

9 Cathode Characteristics

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Unit
Hot resistance	Rh	/	/	/	Ω
Rh/RC	Rh/Rc	/	/	/	/

10 safety Requirement

All of safety item	Comply with IEC-61199
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Prepared (Date)	Audit (Date)	Joint signature (Date)	Approved (Date)
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